

Decision Support Briefing

Southeast River Forecast Center



Hydrologic Vulnerability Assessment



Issued: 2:08 PM ET Sunday, February 14, 2021



Weather Ready Nation



NWSSERFC



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- **Periods of rain over the next several days on top of already very wet soils will result in numerous minor flood rises along rivers and creeks with even some moderate flooding possible.**
- **The greatest potential for flooding will be from north Florida through the Carolinas and into southern Virginia.**

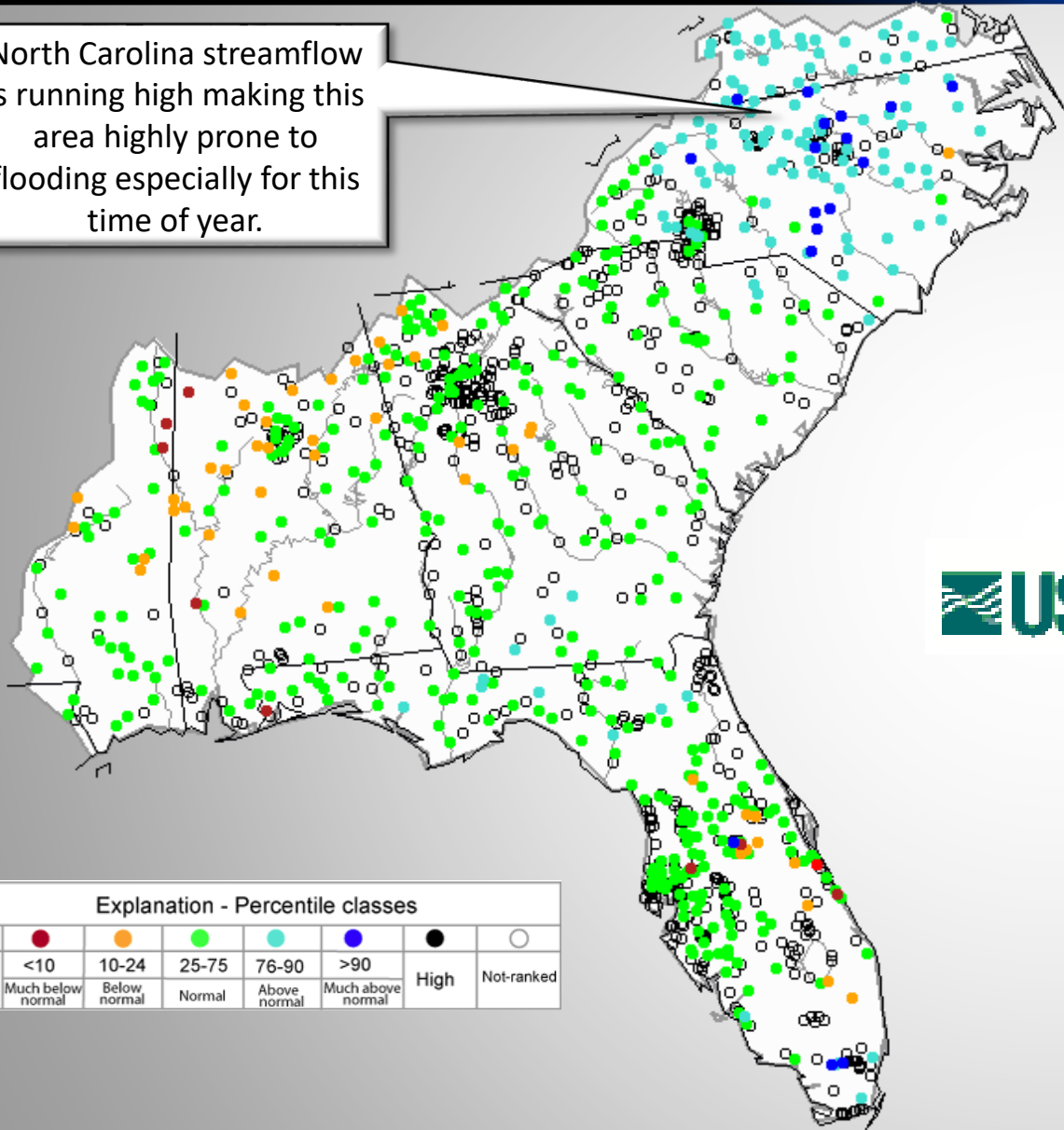
Current Southeast Streamflows

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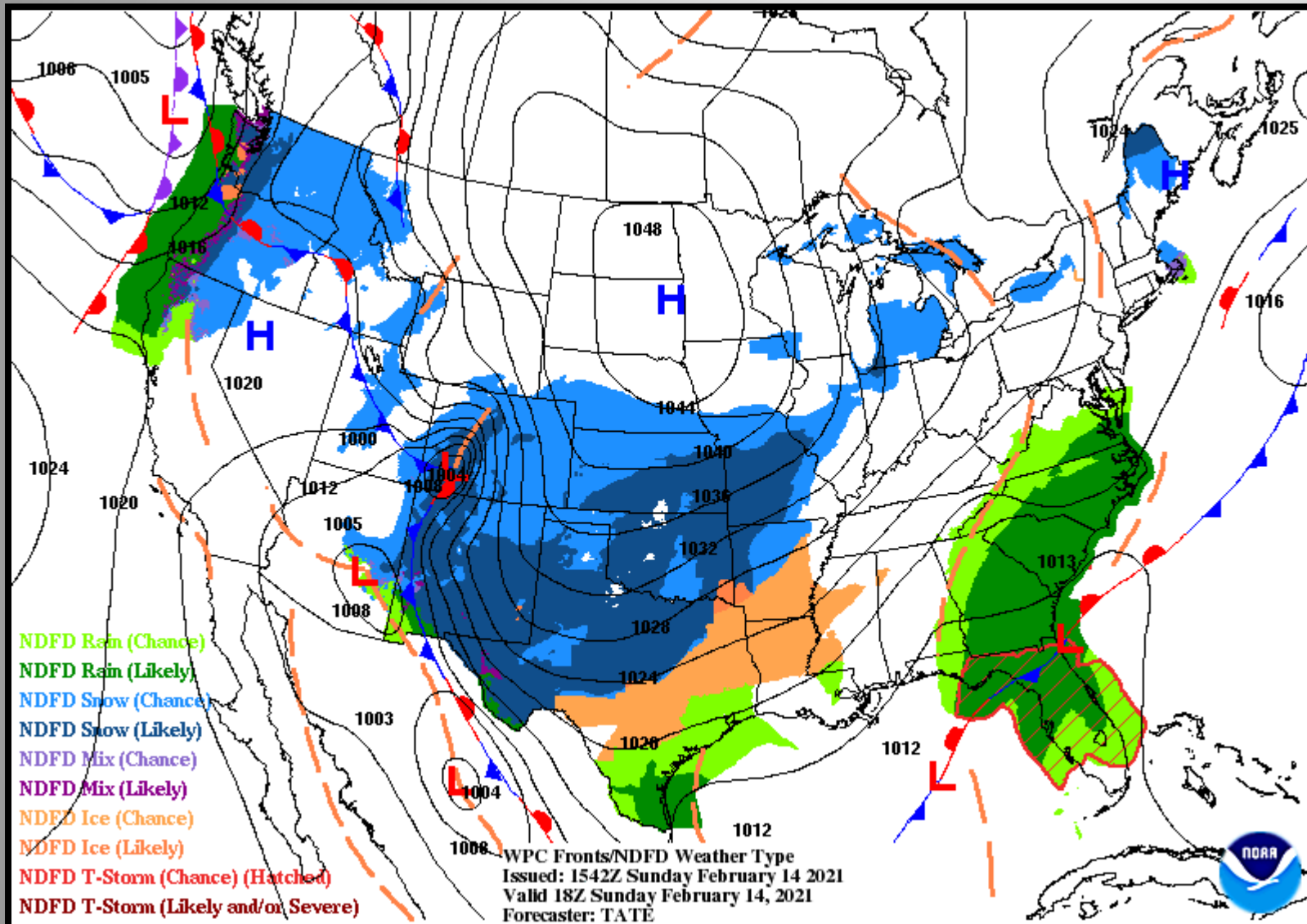
North Carolina streamflow is running high making this area highly prone to flooding especially for this time of year.



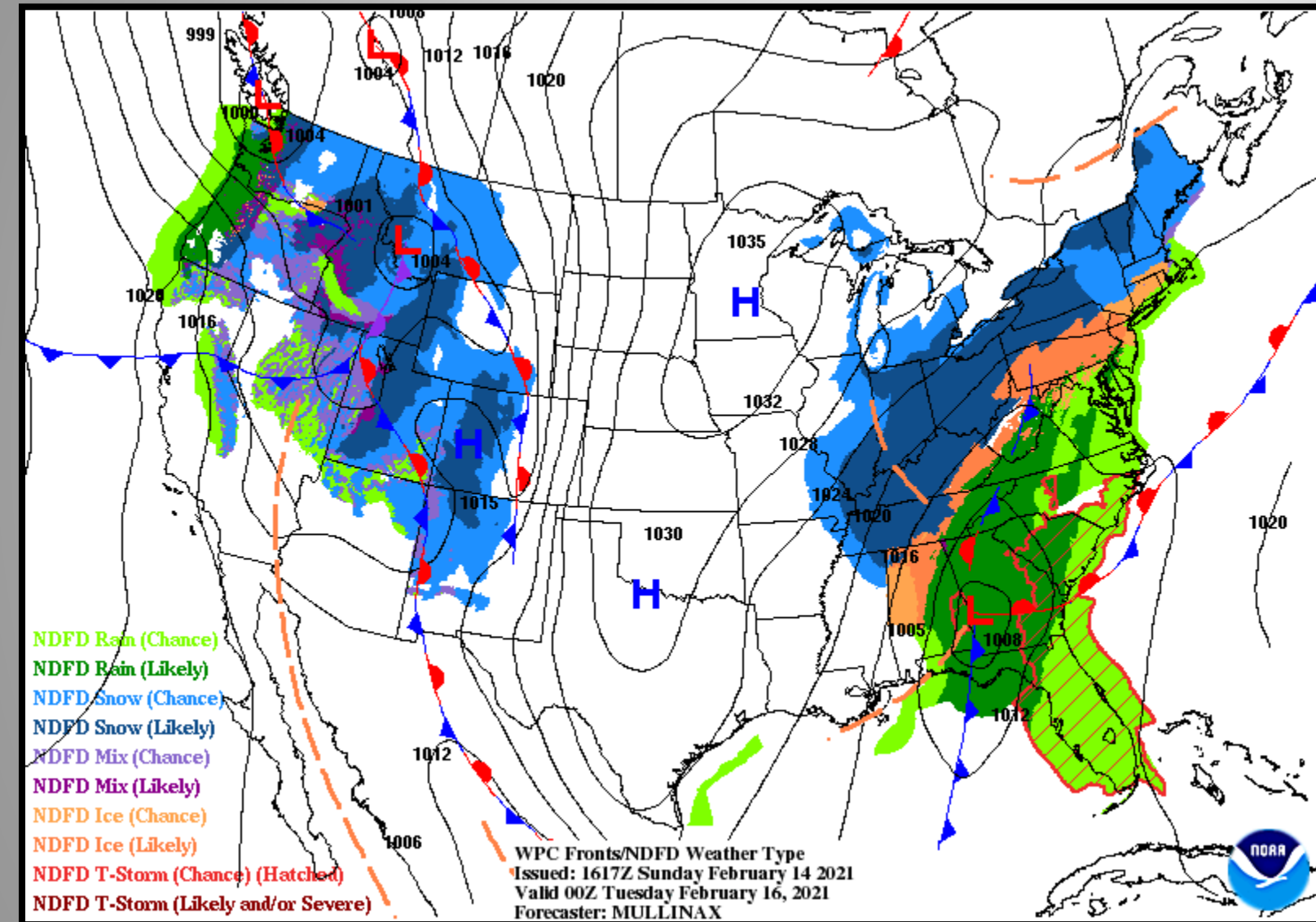
The 28-day average streamflows range from near normal to above normal for much of the Southeast. Keep in mind that streamflows are typically at some of their highest levels this time of year so normal streamflow for this time of year is generally above normal for most other times of the year.

Explanation - Percentile classes

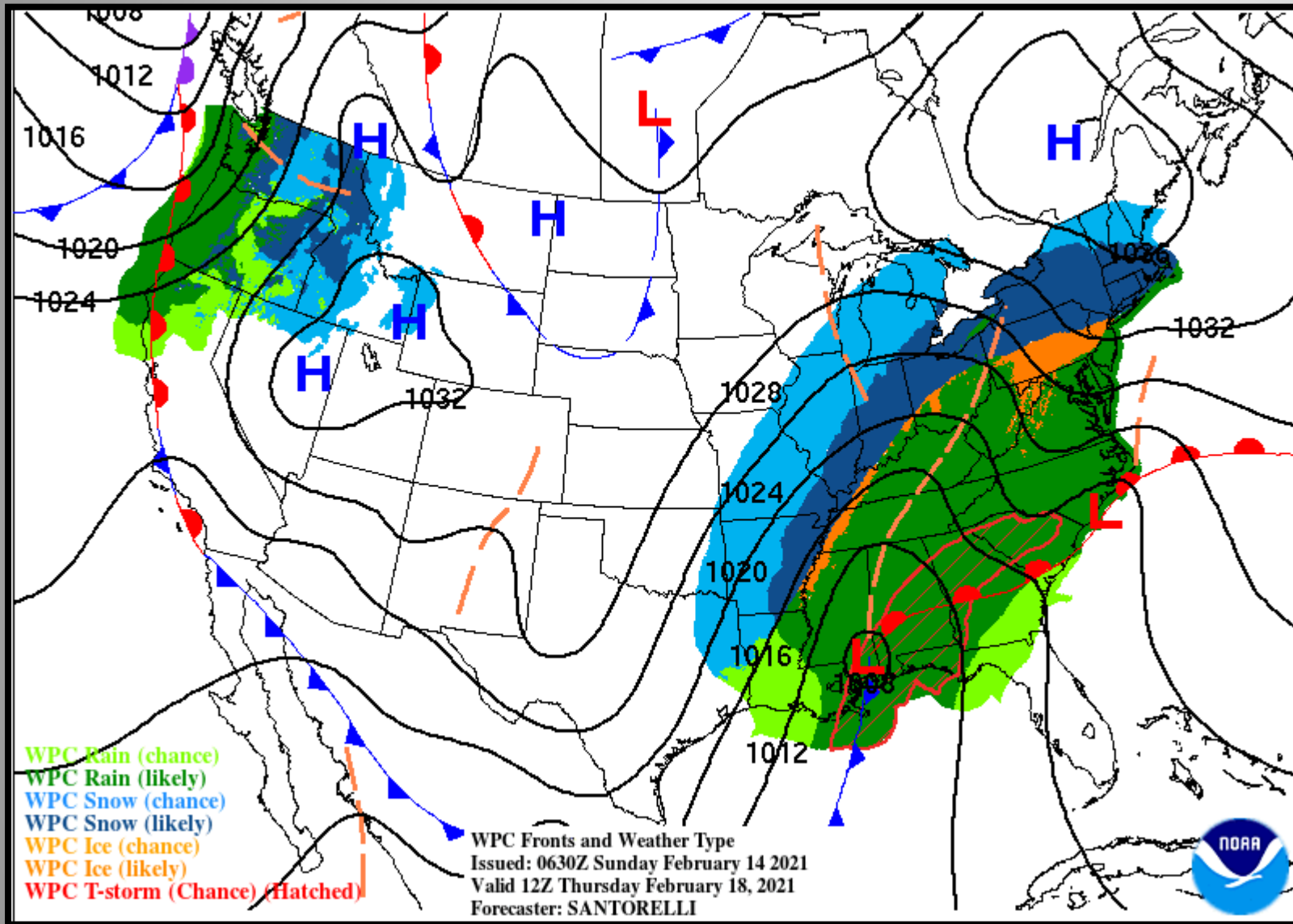
Low	<10	10-24	25-75	76-90	>90	High	Not-ranked
	Much below normal	Below normal	Normal	Above normal	Much above normal		



Rain will be exiting this evening as the storm system moves off the coast but during the day...rain will spread across the region. Rain amounts should be light to moderate.



On Monday, another storm system moves across the region bringing another round of rain. Most of the frozen precipitation stays to the north of the region.



Tuesday we get a short break in the rain but late Wednesday into Thursday our next wet storm system spreads more rain to the region.

Southeast Flood Threat

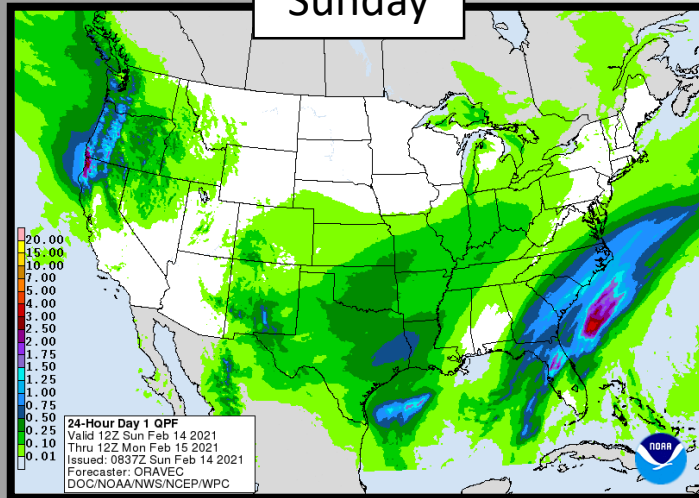
Rainfall forecast amounts each day

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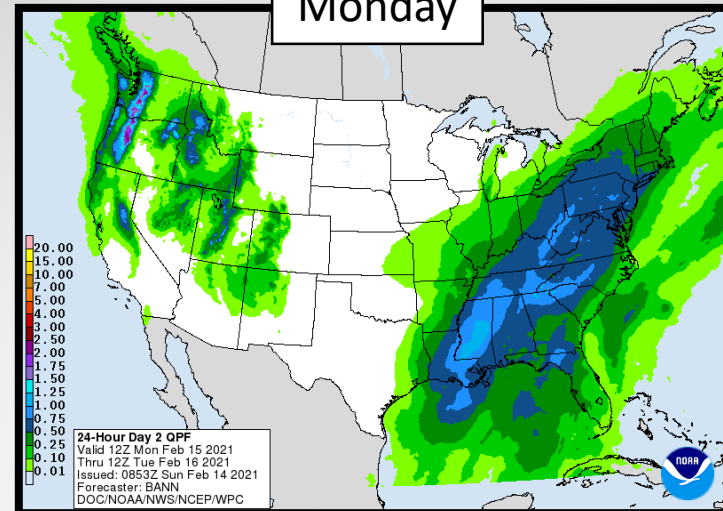
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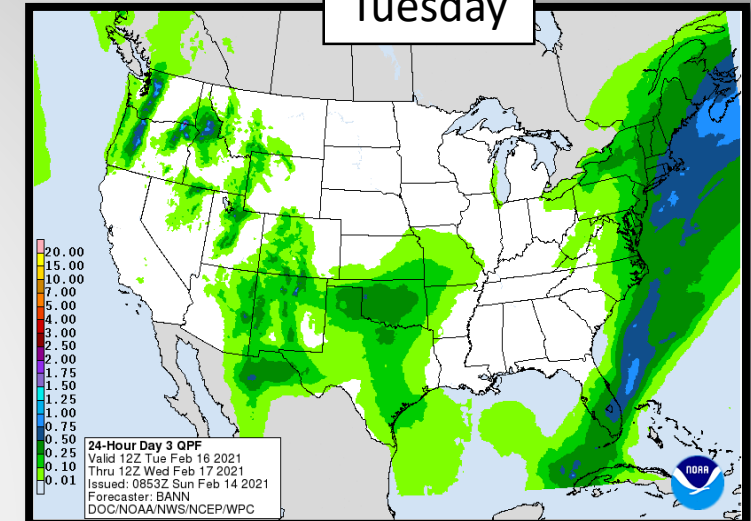
Sunday



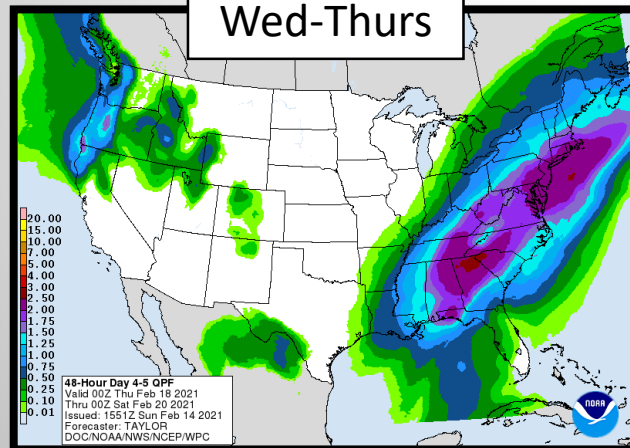
Monday



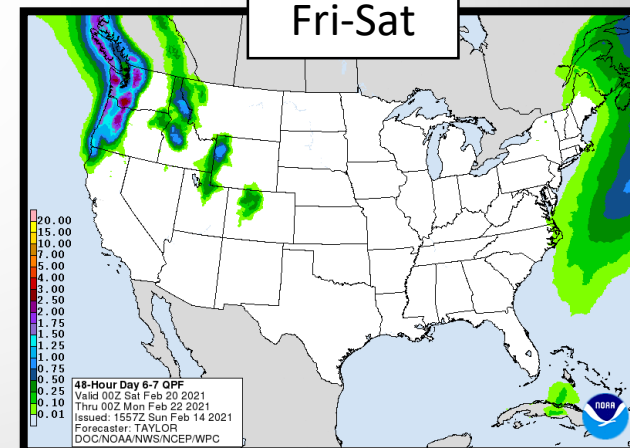
Tuesday



Wed-Thurs



Fri-Sat



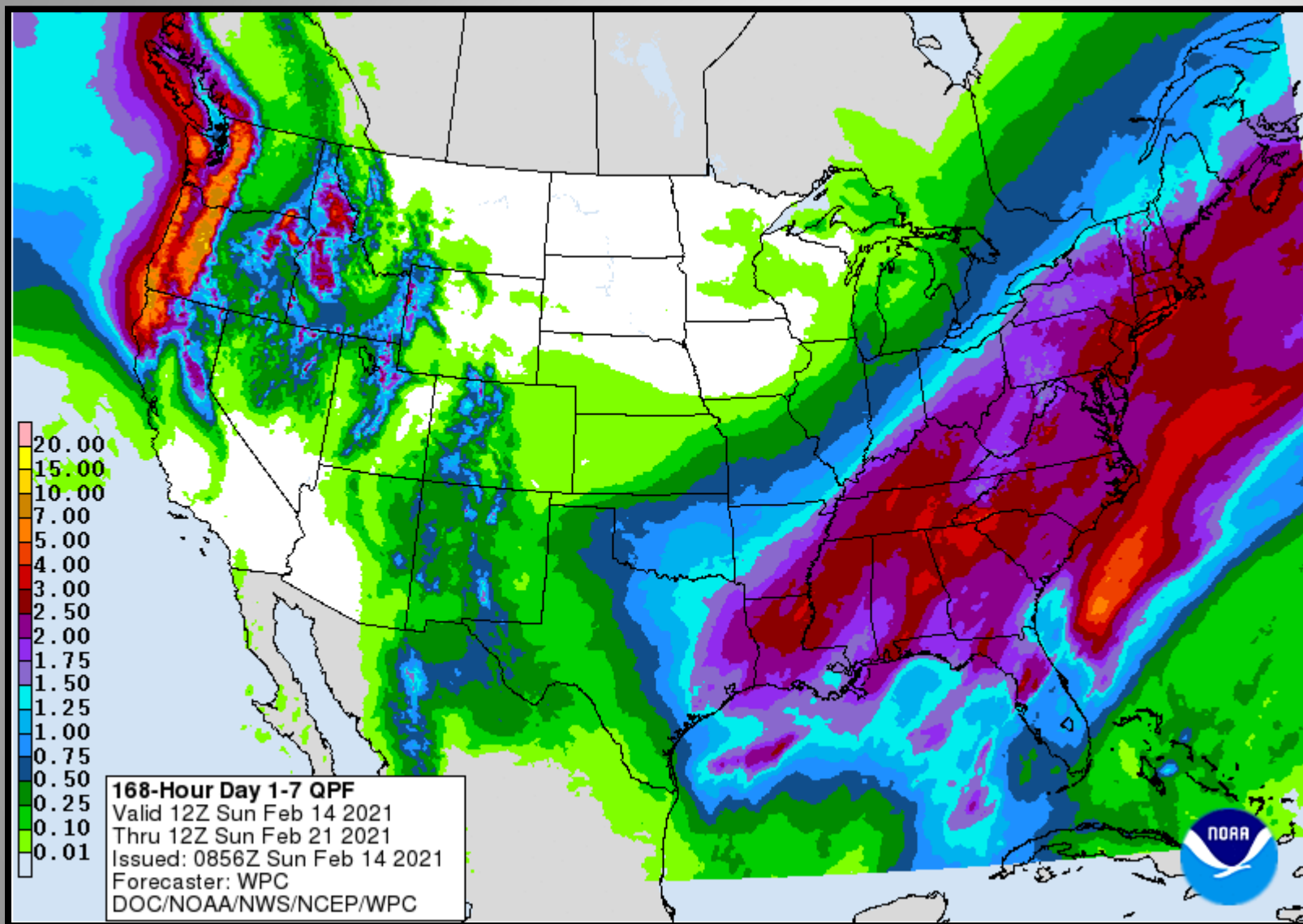
Rain impacts today and Monday and again on Wednesday into Thursday.

Southeast Flood Threat

Total rainfall forecast over the next 7 days

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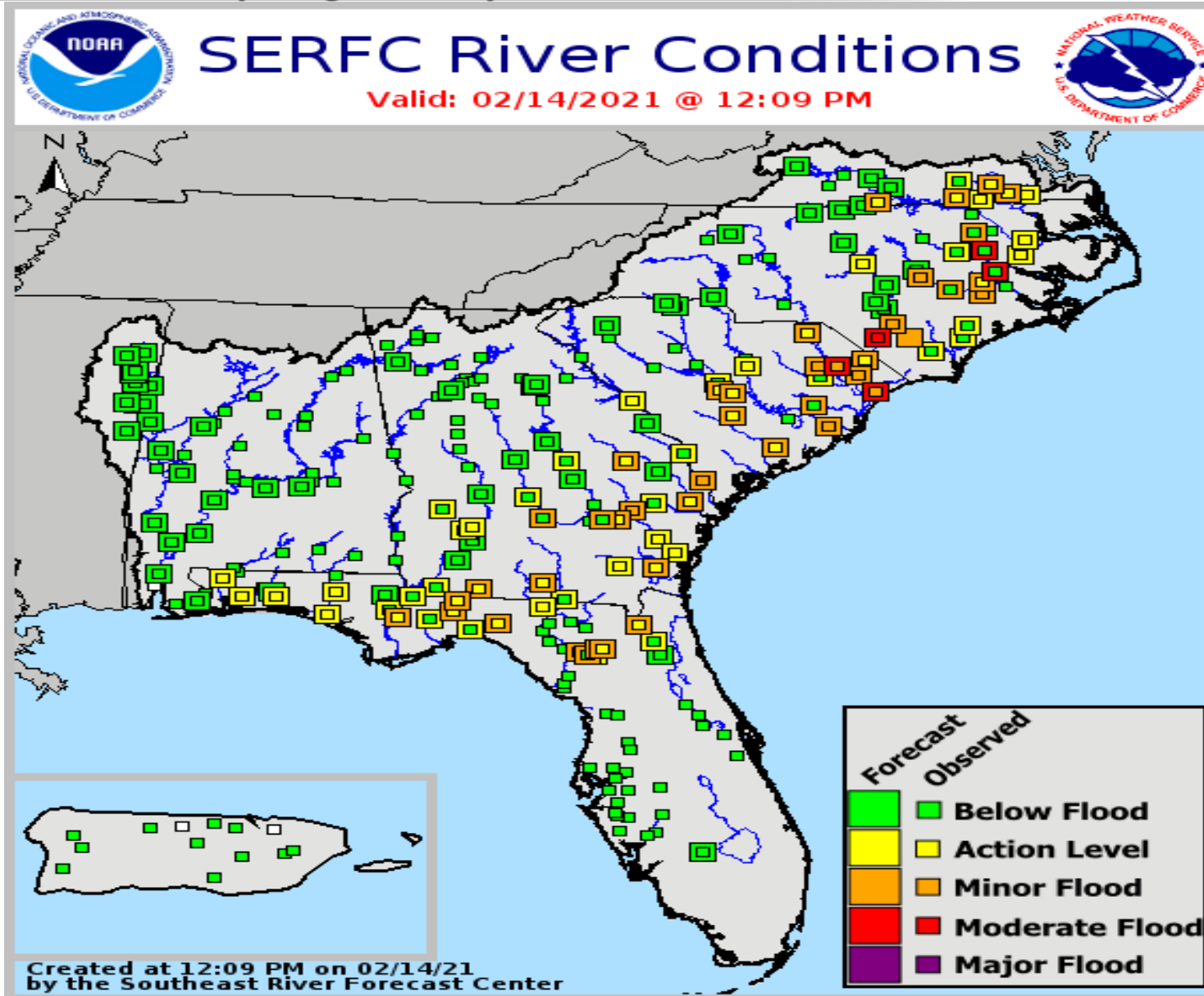
Rainfall total amounts of 1 to 3 inches will be common across the Southeast by the end of the week with some isolated totals reaching 5".

River Flood Potential next 5 days

River Forecast Map using next 2 days rainfall

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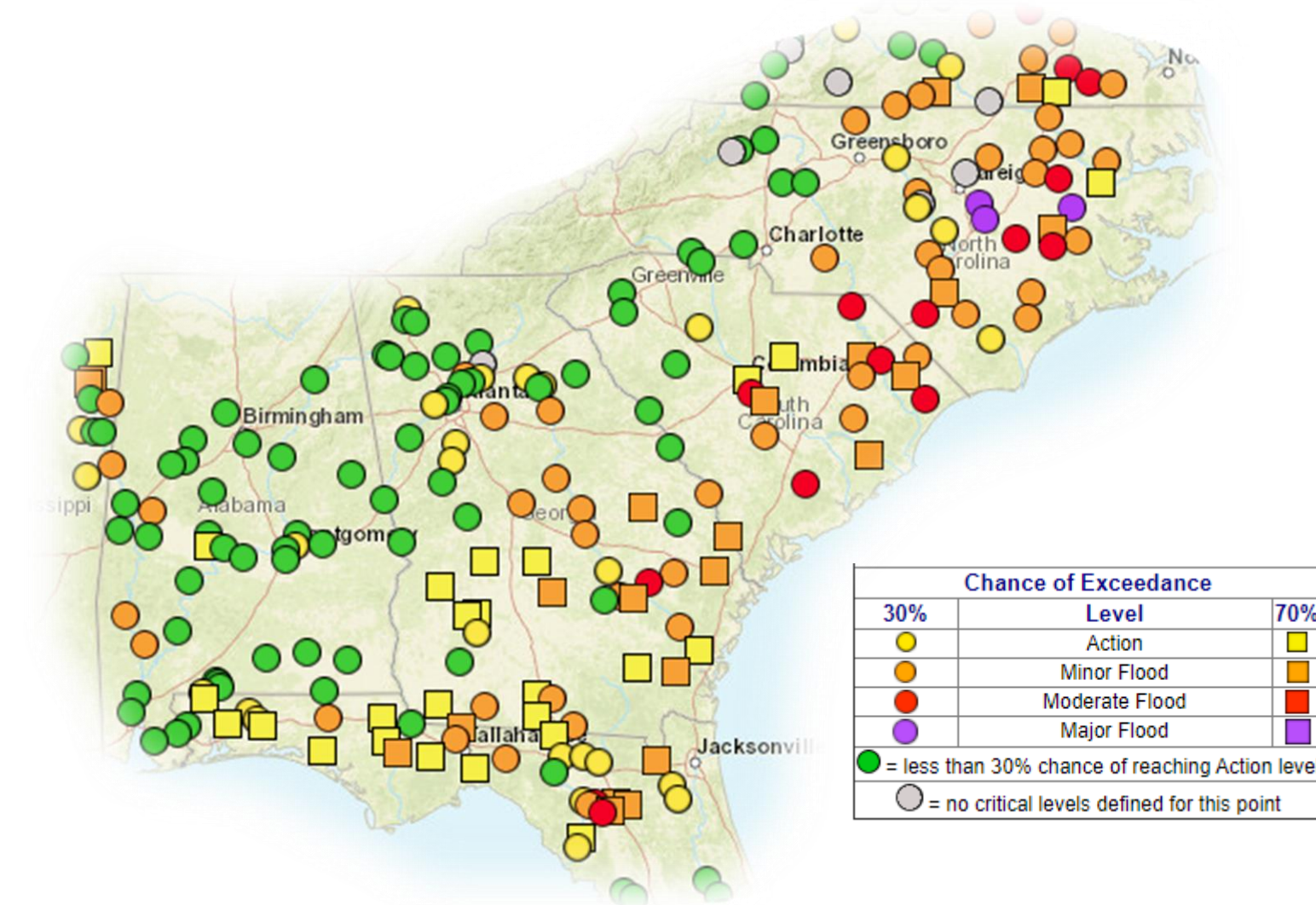
Here are the latest river forecast impacts using the rainfall expected over the next 48 hours (only the Sunday and Monday rainfall event). Widespread minor flooding is expected from the Florida Panhandle to southern Virginia. Isolated moderate flooding is also expected in coastal NC and SC.

River Flood Potential next 10 days

River Forecast Map using next 10 days rainfall

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Here is the 10-Day Outlook map which uses the rainfall model outlooks for the next 10 days. This map does include both the Sunday into Monday rain event as well as the rain event on Wednesday and Thursday. This map show the potential for more significant flooding in the Carolinas and southern Virginia as well as additional flooding potential in Mississippi and Alabama through the end of the week and into next weekend.

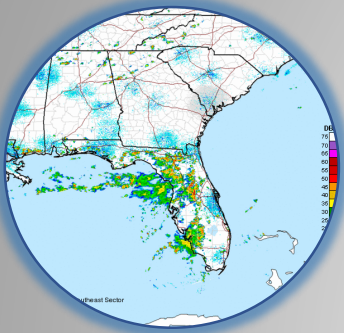
See MMEFS Link at end of these slides for 10-Day Ensemble River Forecasts



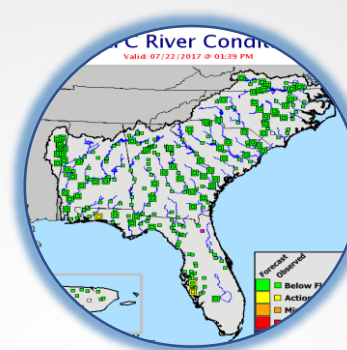
- SERFC will be extending operating hours this evening and likely for the next several days.
- Additional briefings are likely over the coming days.

Latest River Stages and Forecasts
are available...click here!

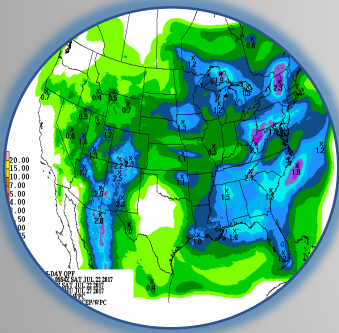
Please send all operational correspondence to
sr-alr.rivers@noaa.gov or call the office directly.



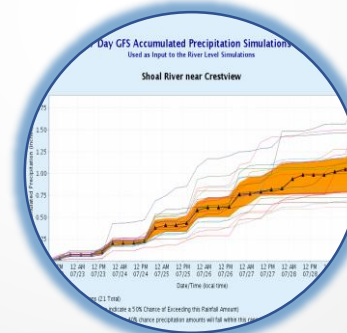
[Latest Radar](#)



[SERFC Quick Brief](#)



[Latest Forecast Rainfall](#)



[MMEFS – Ensemble River Forecasts](#)



- *This product has set the stage for the upcoming event. The Decision Support briefing will continue over the next few days to update you on current conditions and changes to the forecast.*
- *These slides are intended for your use. Please feel free to share these with others. If you have any questions please email sr-alr.rivers@noaa.gov or contact your local NWS Weather Forecast Office.*
- *Remember: SERFC briefings cover freshwater flooding. For information on coastal and tidal flooding, flash floods, winds, and severe weather risks, please contact your local Weather Forecast Office.*